Message

From: Ex. 4 CBI @TechLawInc.com]
Sent: 2/6/2020 3:47:34 PM
To: Matlock, Dennis [Matlock.Dennis@epa.gov]
CC: Werner, Lora S. (ATSDR/DCHI/EB) [lkw9@cdc.gov]
Subject: FW: Draft Tables/Figures for Paden City

Dennis,
Below is an email I sent awhile back before we completed the investigation report for the November 2018 sampling. I will send the Final investigation report via a separate email. The file is large – 16 MB with figures and without the attachments. Lora, if you want the full report with attachments, I can send you a link to download it.

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From: Ex. 4 CBI
Sent: Friday, February 1, 2019 4:10 PM
To: Carter, Joe <Joe.Carter@TechLawInc.com>
Subject: Draft Tables/Figures for Paden City

Dennis,
Attached are Draft tables describing sample IDs and locations of soil samples and groundwater/sanitary sewer samples and Figures showing soil and groundwater sample locations with the sample IDs. The soil sample table also has the final, validated results for PCE in the samples. These are 'draft'. Ben prepared the figures/tables and I did a QA review and made edits, but they have not been through our full internal QA review process (but will be in conjunction with report review).

As I mentioned in a previous email, the soil samples collected on the east side of the building near the garage door all had significant levels of PCE, with one at a concentration of 1.9% PCE. So the former Bandbox dry cleaner is definitely a significant source area. We only have unvalidated data for the groundwater sampling which was done a couple weeks after the soil sampling. But results for the well in the road at the dry cleaner had 4,700 ppb PCE. The monitoring well we installed between the dry cleaner and the City Well #2 (EPA02) was non-detect for PCE. So either the PCE migrated via a narrow band direct to well #2 or via the sewer line to a release point somewhere in the vicinity of the well. The well we installed on the other side of the school (EPA04) between the dry cleaner and the city well nos. 3, 4, and 5 only had a trace level of PCE at ~ 0.25 ppb. Explanations for this low result in EPA04: 1) PCE migrated from dry cleaner in narrow band which missed the well; 2) potentially, contamination in these city wells may have come from one of the former dry cleaners located a few blocks south of city well #3. Additionally, surprisingly we detected a small amount of PCE, 4.9 ppb, in the background well. This was formerly a swampy area that was backfilled. It isn't too far from the dry cleaner, but is located hydrologically upgradient of the site..

Some things we need to consider doing:

1. We should install transducers in our monitoring wells and coordinate with the WVDEP person who has transducers in the city wells to get data to determine groundwater flow direction. This data is needed in order to determine the best locations for potentially new monitoring wells. I think Bill H. has his contact info.;

2. Next field job, we need to consider doing some Geoprobing at/near the other two former dry cleaner buildings, and possibly installing a monitoring well or two in that area to verify/determine if there is a source in that area that is impacting the city wells.
3. Possibly additional geoprobing/wells around the dry cleaning building to better define the source area and plume.
4. Consider getting the ERT (Greg Powell?) involved after I finish the report. They have some high level hydrogeologists that may be able to review our data/results and make some inputs/suggestions for follow on investigation work.

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